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ALAMEDA POINT
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WORK PLAN
TEMPORARY STORAGE AND TREATMENT AREA
NAVAL AIR STATION
ALAMEDA, CALIFORNIA

CONTRACT NO. N62474-93-D-2151
Delivery Order No. 0043

Submitted to:

Department of the Navy
Engineering Field Activity, West
Naval Facilities Engineering Command
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San Bruno, California

Submitted by:

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Revision 2

October 1996

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Approved by: Thomas A Davis Date: 11-4-96
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IT Program Contractor Quality
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Valerie Crooks, P.E.
IT Program Manager

Addendum

WORK PLAN
TEMPORARY STORAGE AND TREATMENT AREA
REVISION 1

DATED 01 NOVEMBER 1995

IS FILED AS ADMINISTRATIVE RECORD NO.
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1.0 Introduction

After almost one year of operation the Temporary Storage and Treatment Area (TSTA) soil pile is estimated to have drained most, if not all, of the leachable moisture that was present in the soil at the time that it was placed in the stockpile. The hay bale berms that surround the stockpile are no longer required as a precaution to prevent leachate from escaping the collection trench. During the previous rainy season the berms have caused rainwater runoff from the stockpile cover to pond on top of the liner cover inside the berms. The laboratory analyses of this accumulated runoff have confirmed that it is not contaminated with any of the constituents of concern. As this water has accumulated within the berms it has had to be removed from time to time using pumps and labor.

Retrofitting the TSTA pile cover will permit this runoff to flow directly to the ground. From the standpoint of maintenance this is desirable since it will eliminate the need to periodically pump out the bermed areas. Retrofitting will consist of removal of the hay bale berms from the perimeter of the stockpile and regrading the area from the toe of the stockpile to the existing ground area beyond the leachate trench to create a positive slope away from the covered stockpile.

2.0 Mobilization

A fully equipped field office location is available for the field work under this Delivery Order. It is the field office that is currently in use for Delivery Order 41, an active field project at Alameda NAS. The TSTA retrofitting work will utilize the same field management personnel as are currently at work under Delivery Order 41. Mobilization will primarily consist of delivering construction equipment to the site. It is anticipated that all health and safety equipment and project vehicles will be shared on a prorate basis using equipment on hand for Delivery Order 41. Prior to the start of work on the TSTA pile a portion of the temporary fence that encloses the TSTA pile will be removed in order to facilitate movement of equipment and material around the stockpile.

3.0 Construction

Spot topographic elevations were measured previously at the TSTA site previously. These elevations were taken outside the hay bale berms and along the trench inside the berms. Based on these elevations, clean fill must be installed in the area between the foot of the stockpile and the area just outside the existing berms to provide positive drainage away from the stockpile. Some minor regrading of the existing area outside the berms will enhance surface flow to the nearest drainage structure which is to the north of the stockpile. The fill material that will be used will be provided by the Navy.

The fill material will be placed after removing the hay bale berms from the perimeter of the soil stockpile. The hay bales will be removed by cutting the top layer of HDPE at a point just outside the berm completely around the perimeter of the stockpile. This will expose the hay bales and allow their easy removal. The clean fill material will then be placed directly on the top layer of HDPE. This fill will extend from the foot of the stockpile across the trench to the existing ground surface sloping away from the stockpile.

After the hay bales are removed from around the stockpile most of them will be placed directly into roll-off bins for removal and disposal. A few of the bales will be reused as silt barriers, as described below. Clean fill material will be supplied by the Navy from stockpiled soil at Alameda NAS. This material will be transported by the Navy to the TSTA area for placement by IT Corporation. The fill material will be placed around the stockpile and graded to a positive slope of approximately 5 to 1 (horizontal to vertical) sloping away from the stockpile. After the soil fill material has been placed and graded, a layer of smooth rounded 3/4 inch to 1 inch diameter drain rock will be placed on top of the fill starting at the point where the fill meets the HDPE cover at the top of the slope and extending down the slope to the toe of the slope The thickness of this drain rock will be approximately 2 to 3 inches. The purpose of this drain rock layer is to minimize erosion of the dirt fill material. The drain rock will be delivered to the TSTA site and stored on the pavement area to the east of the stockpile until placed around the pile.

As a precaution against the possibility of eroded fill material being transported to the storm drain, a silt barrier will be placed around the storm drain. This barrier will be constructed of hay bales that were removed from the berm area of the stockpile.

The scope of work under this retrofit action does not include the removal of any equipment associated with the leachate trench or the leachate removal system. The leachate collection system will remain in place in the event that the HDPE cover is damaged and leakage into the dirt pile occurred. In that event, it may be determined that the leachate collection system should be reactivated on a temporary basis. The gravel trench, the sump, the sump pump, and all piping and electrical controls for the pumping system will remain in place for this purpose. The 5,000-gallon storage tank will also remain in place. As a part of continuing operation and maintenance of the stockpile, the sump pump will be exercised each week to ensure that it is operable.

4.0 Demobilization

At the conclusion of the construction activities fencing that was removed prior to construction will be replaced. Construction equipment will be returned to the rental agencies, and remaining material surplus to the field work will relocated to appropriate Navy inventory.